

DUTY STATEMENT

Classification: Energy Specialist I (FO)	Position No. 8100-4847-010
CBID: R10	Office: Electricity Analysis
Date Prepared: September 22, 2010	Division: Electricity Supply Analysis Division
KEY: (E) IS ESSENTIAL, (M) IS MARGINAL	

WORKING CONDITIONS: Work is performed indoors in an office setting, conference and/or hearing room environment, and may require standing and walking as well as sitting for long periods of time. Work area is well lighted and ventilation is adequate. The noise level may be high. Some travel may be required to attend off-site meetings. Additional hours beyond an eight-hour workday or forty-hour workweek may be required.

DUTIES AND RESPONSIBILITIES: Under the general direction of an Electric Generation System Specialist III and the general supervision of an Electric Generation System Specialist II in the Electricity Analysis Office, the incumbent will be the subject matter expert regarding the deployment of smart grid applications and the how these changes support state policy related to integration of renewable generation, electric vehicles and increased customer choice and reliability. The incumbent will develop methodologies to assess and allocate costs and benefits associated with smart grid investments and develop new business cases that will encourage the development of new markets. The incumbent also will work with regulatory and governmental agencies to develop metrics to measure progress towards meeting smart grid and state renewable and environmental objectives. Additionally, the incumbent will track and provide analyses on how well both IOU and POU smart grid applications and pilots are performing.

The incumbent will work cooperatively with the state's publicly owned Utilities (POUs) to develop smart grid implementation and deployment plans that demonstrate compliance with the policies and requirements adopted in Senate Bill (SB)17, Chapter 327, Statutes of 2009. The incumbent will provide analytical support through evaluations and analyses of technologies, applications, processes, and systems currently in use, as well as assist with the development of plans for future investment. These deployment plans will establish a baseline that will be used to monitor the development and deployment of smart grid technologies over the next decade for both investor-owned utilities (IOUs) and POUs. Working with the POUs, the incumbent will support and coordinate the development of a common structure that includes information on the current state of the grid for each utility, describe smart technologies that have been deployed including the scope of those deployments and investments. Additional responsibilities include monitoring and participating in CPUC smart grid proceedings and discussions of standards and protocols that will be needed to fully integrate all smart grid technologies in California by 2020.

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- 40% Perform as the Energy Commission's project lead for the implementation of SB 17. This includes providing subject matter expertise, analytical support, coordination and oversight for the POU's development of their smart grid business and implementation plans. Work independently and cooperatively with customers and representative associations such as the Northern California Power Agency, the Southern California Public Power Authority and the California Municipal Utilities Association to understand the current status of their respective grids, the specific smart grid opportunities from which they and the state can benefit, and the benefits that their customers should expect as a result of these investments. Provide technical support through evaluations and analysis of technologies, applications, processes, and systems currently in use, as well as currently approved plans for future investments; begin identifying current regulatory policies that will impact smart grid deployment; and help assess customer understanding and attitudes towards smart grid. Provide information and data that will support the development of a smart grid vision, business case and implementation plan that is appropriate for their organization and customers and provides for improved reliability, security, economics, efficiency, environmental benefits, and safety. Coordinate all these activities with the CPUC and the Energy Commission to assure investments in POU systems will remain fully interoperable with other systems in California and are capable of integrating future new emerging end-use technologies as they develop.
- 25% Act as project lead in activities related to updating, revising and support of the ongoing development of POU's smart grid plans and technology deployments. Work with POU's to develop metrics to evaluate the ongoing costs and benefits of smart grid technology investments. Coordinate and work with industry groups to assure POU smart grid technology standards are appropriate and consistent with those established by state and federal agencies for IOUs. Continue evaluations of smart grid costs and benefits and provide information and recommendations to modify implementation plans as new or improved technologies become commercially available. (E)
- 25% Perform research, analyses, and preparation of written and oral technical reports concerning smart grid implementation strategies, and other energy and smart grid related topics, including integration of distributed energy resources, microgrids, distribution infrastructure designs and other analytical work as needed to support analysis of smart grid investments for use in the Energy Commission's *Integrated Energy Policy Report* and other proceedings. Manage contracts for professional services as may be needed. (E)
- 5% Participate in Energy Commission, CPUC, and other workshops, conferences, proceedings, etc. which address smart grid plans and strategies for IOUs and POU's and related topics. (E)
- 5% Perform other duties as required consistent with the job specifications of this classification. (M)

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SIGNATURES	
I Certify That I Am Able To Perform, With Or Without The Assistance Of A Reasonable Accommodation, The Essential Job Duties Of This Position	
<hr/> /_____ Date	<hr/> /_____ Linda Kelly, Supervisor Date